

PO Job Risk Assessment

Name(s) of Risk Team Members: J. Vignola, R. Gill		Point Value → Parameter ↓		1		2		3		4		5	
Job Title: Radioactive source and material use Job Number or Job Identifier: PO-JRA-020		Frequency (B)		≤once/year		≤once/month		≤once/week		≤once/shift		>once/shift	
Job Description: The storage, use, and transfer of exempt and non-exempt radioactive sources and materials. Most sources are sealed, but a few are windowless.		Severity (C)		First Aid Only		Medical Treatment		Lost Time		Partial Disability		Death or Permanent Disability	
Training and Procedure List (Optional):		Likelihood (D)		Extremely Unlikely		Unlikely		Possible		Probable		Multiple	
Rev. #: 0 Date: April 7, 2005				Reason for Revision (if applicable):						Comments:			

				Before Additional Controls										After Additional Controls						
Job Step / Task	Hazard	Control(s)	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk					Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
Removing or returning source to storage box	Radiation exposure	Training, TLD, postings, RWPs for strong sources, inventory, Tier 1, sealed radioactive source control subject area, RADCON manual	N	1	2	1	4	8												
	Radioactive contamination from broken source	Semiannual leak checks of non-exempt sources, proper clothing, RADCON manual	N	1	2	1	2	4												

PO Job Risk Assessment

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Job Step / Task	Hazard	Control(s)	Stressors Y/N	# of People A		Frequency B		Severity C		Likelihood D		Risk* AxBxCxD	Control(s) Added to Reduce Risk		Stressors Y/N	# of People A		Frequency B		Severity C		Likelihood D		Risk* AxBxCxD	% Risk Reduction				
				1	2	1	2	1	2	1	2		1	2		1	2	1	2	1	2	1	2						
Using a sealed source Using a sealed source	Radiation exposure	Training, TLD, postings, RWPs for strong sources, inventory, sealed radioactive source control subject area, RADCON manual	N	1	2	1	2	1	4	4	8								# of People A		Frequency B		Severity C		Likelihood D				
	Radioactive contamination from broken source	Semiannual leak checks of non-exempt sources, proper clothing, RADCON manual	N	1	2	1	2	1	2	4								# of People A		Frequency B		Severity C		Likelihood D					
Using a windowless source	Radiation exposure	Training, TLD, postings, RWPs for strong sources, inventory, sealed radioactive source control subject area, RADCON manual	N	1	2	1	2	1	4	4	8								# of People A		Frequency B		Severity C		Likelihood D				
	Radioactive contamination from broken source	Semiannual leak checks of non-exempt sources, proper clothing, RADCON manual	N	1	2	1	2	1	2	4								# of People A		Frequency B		Severity C		Likelihood D					
	Radioactive contamination from touching source	Training, postings, RWPs for strong sources, PPE, RADCON manual	N	1	2	1	2	1	2	2	4							# of People A		Frequency B		Severity C		Likelihood D					
Transporting source to another building on site	Radiation exposure	Training, TLD, postings, RWPs for strong sources, inventory, transportation container, sealed radioactive source control subject area, RADCON manual	N	1	2	1	2	1	4	4	8								# of People A		Frequency B		Severity C		Likelihood D				

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	Radioactive contamination from broken source	Semiannual leak checks of non-exempt sources, transportation container, sealed radioactive source control subject area, RADCON manual	N	1	2	1	2	4										
	Vehicle accident	Transportation container, sealed radioactive source control subject area, RADCON manual, PO-JRA-001	N	1	2	1	2	4										
Inventory and/or leak checking sources	Radiation exposure	Training, TLD, postings, RWPs for strong sources, inventory, sealed radioactive source control subject area, RADCON manual	N	1	2	1	4	8										
	Radioactive contamination from broken source	Training, proper clothing, PPE, RADCON manual	N	1	2	1	2	4										
	Radioactive contamination from touching windowless source	Training, postings, RWPs for strong sources, PPE, RADCON manual	N	1	2	1	2	4										
	Radiation exposure	Training, TLD, postings, inventory, RADCON manual	N	1	2	1	4	8										
Working with radioactive material (non-sources)	Radioactive contamination from material	Training, proper clothing, PPE, RADCON manual	N	1	2	1	2	4										

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Job Step / Task	Hazard	Control(s)	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction	
Working with fissile materials	Radiation exposure	Training, TLD, postings, inventory, RWPs, work planning, RADCON manual	N	1	2	1	4	8									
	Radioactive contamination from material	Training, proper clothing, PPE, RADCON manual	N	1	2	1	2	4									
	Criticality accident	Training, review by criticality officer, RWPs, control and size of inventory, work planning, RADCON manual	N	1	1	5	1	5									
Further Description of Controls Added to Reduce Risk:																	
*Risk:	0 to 20 Negligible	21 to 40 Acceptable	41 to 60 Moderate				61 to 80 Substantial				81 or greater Intolerable						